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hub4j/

github-api

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Activating a research fault localization bot on your project? #1302

EditNew issue

Open

dginelli opened this issue 17 days ago · 3 comments



dginelli commented 17 days ago

Spammy

...

Hi!

We are software engineering researchers and are currently looking for active open-source projects where we could test a new cool software bot: flacocobot!

When a new pull request is open, if it has test failures/errors, flacocobot analyzes the failure and posts a diagnosis as comments to the pull request, highlighting the most suspicious lines that likely need to be analyzed to fix the bug.

flacocobot works as follows:

- When a new PR is open, if the test suite fails, flacocobot starts its analysis.
- The top k suspicious (potentially buggy) lines of code are then highlighted as comments to the PR.

We would love to have your feedback in order to understand what you like or you do not like, what we can improve, and if you find it useful!

If you are interested in trying it, we will run flacocobot on your project for a period of two weeks and then give you a 1-minute questionnaire to collect your feedback.

What do you think? Can we activate flacocobot for [github-api](#)?

Thanks,

Davide ([@dginelli](#)), André ([@andre15silva](#)), Matias ([@martinezmatias](#)), Benjamin ([@danglotb](#)), Martin ([@monperrus](#))

You can find out more in our tools repos:

- <https://github.com/SpoonLabs/flacoco>
- <https://github.com/eclipse/repairnator>

Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone

Linked pull requests

Successfully merging a pull request may close this issue.



None yet


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2 participants






gsmet commented 17 days ago

Contributor

...

Hi,

Not talking for the project as I'm just a contributor but I think the first step would probably be to point us to a report where we can see what it does in real life?



dginelli commented 17 days ago

Author

Spammy

...


Hi [@gsmet](#),

Thank you for your answer. You can see an example of review comments generated by flacocobot on [this pull request](#).

Basically, when flacocobot finds a pull request that fails due to a test case, it clones the project in order to reproduce the failure in a Docker environment.

After that, it starts the fault localization using [Flacoco](#) in order to find the lines of code that might be related to the failure. For every line, it associates a suspiciousness score. The higher the score, the higher the likelihood that a line is related to the failure.

Finally, flacocobot adds a review comment to the pull request, indicating the top 5 most suspicious lines found during the localization step and that are also in the diff introduced by the pull request compared to the original source code.




dginelli commented 17 days ago

Author

Spammy

...

Let me know if you need other details! :-)



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